

Revisions

Date

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SHIVEHATTERY

ARCHITECTURE+ENGINEERING

Drawing Title

PLUMBING SCHEDULES AND LEGEND

Project Title

RENOVATE AND EXPAND SPACE FOR PATIENT SUPPORT AREAS

Approved: Division Chief

Approved: Service Director

Building Number

2

Checked

TRF

Drawn

MSJ

Location

IOWA CITY VA HEALTH CARE SYSTEM
IOWA CITY, IOWA

Date

12-05-2014

Project No.

DVA#636-311

S-H#110240-0

Drawing No.

2-P6

Dwg. 10 Of 24

2-1

Veterans Administration

one-eighths inch=one foot

one-quarter inch=one foot

three-eighths inch=one foot

one-half inch=one foot

three-quarters inch=one foot

one inch=one foot

one and one-half inches=one foot

three inches=one foot

LEGEND

FITTINGS	
PLAN MARK	DESCRIPTION
	DIRECTION OF FLOW
	DIRECTION OF PITCH
	ALIGNMENT GUIDES
	PIPE ANCHOR
	AIR VENT
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	FLEXIBLE CONNECTION
	STRAINER
	STRAINER W/ DRAIN
	UNION
	PIPE TRAP
	ELBOW DOWN
	ELBOW UP
	TEE TURNED DOWN
	TEE TURNED UP
	BLIND FLANGE OR WALL CLEANOUT
	PIPE CAP
	FLOOR CLEANOUT
	END RUN CLEANOUT OR PLUG CLEANOUT
	FLOOR DRAIN
	WALL OUTLET
	HOSE BIBB
	WALL HYDRANT OR FREEZE PROOF HOSE BIBB
	PRESSURE GAUGE
	THERMOMETER
	PRESSURE SENSOR
	TEMPERATURE SENSOR
	FLOW SWITCH
	FIRE ALARM SWITCH
	PRESSURE SWITCH
	AUTO VALVE ASSEMBLY
	BALANCE STATION
	FLOW METER
	VENTURI FLOW METER
	WATER HAMMER

LEGEND

VALVES	
PLAN MARK	DESCRIPTION
	3-WAY CONTROL VALVE
	ANGLE GATE VALVE
	ANGLE GLOBE VALVE
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY FLY VALVE
	CHECK VALVE
	GATE VALVE
	GENERIC VALVE
	GLOBE VALVE
	SAFETY RELIEF VALVE
	STORM/ OVERFLOW DRAINS

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
CAP	CAPACITY
CW	COLD WATER
DN	DOWN
DI	DEIONIZED WATER
DIC	DEIONIZED WATER CIRCULATING
DEM	DEMOLISH
EX	EXISTING TO REMAIN
FD	FLOOR DRAIN
GPM	GALLONS PER MINUTE
NAT	NATURAL GAS
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HZ	HERTZ (FREQUENCY IN CYCLES PER SECOND)
HW	HOT WATER
HWC	HOT WATER CIRCULATING
IN	INCHES
IN WC	INCHES (WATER COLUMN)
LB	POUND
MA	MEDICAL AIR
MAX	MAXIMUM
MED	MEDIUM
MEZZ	MEZZANINE
MIN	MINIMUM
MU	MAKE-UP WATER
N	NITROGEN
OD	OVERFLOW DRAIN
OX	OXYGEN
PH	PHASE
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE GAUGE
RO	REVERSE OSMOSIS
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FOOT
SS	SANITARY SEWER
ST	STORM DRAIN
TEMP	TEMPERATURE
TOT	TOTAL
TW	TEMPERED WATER
TWC	TEMPERED WATER CIRCULATING
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VENT
VTR	VENT THRU ROOF
W	WITH
W/O	WITHOUT
W	WASTE (RISER TO FEED PLUMBING FIXTURE(S))
WTR	WATER

SUMP PUMP SCHEDULE

PLAN MARK	CAPACITY (GPM)	HEAD (FT H ₂ O)	MOTOR DATA			BASIN	REMARKS
			HP	VOLTS	Ø		
SP-1	100	25	1/2	120	1	3450	24"Ø X 24" DEEP WITH GRATED COVER

NOTE:

1. PUMP SHALL BE CAPABLE OF PASSING A 2" SOLID.
2. PROVIDE SIMPLEX CONTROL PANEL, REMOTE ALARM PANEL AND OIL DETECTION SWITCH. REMOTE ALARM PANEL SHALL PROVIDE SEPARATE ALARM SIGNALS TO BUILDING AUTOMATION SYSTEM FOR DETECTION OF OIL, WATER (SUMP PUMP ON) AND HIGH LIQUID LEVEL.

WATER HEATER (ELECTRIC) SCHEDULE

PLAN MARK	SYSTEM WATER					VOLTS	Ø	HZ	REMARKS
	STORAGE (GAL)	RECOVERY (GPH)	IN T	OUT T	KW INPUT				
EW1-1	120	369	40	120	99	480	3	60	5 ELEMENTS, 18000 WATTS EACH

NOTE:

1. WATER HEATER SHALL BE "ENERGY STAR" RATED.

DOMESTIC WATER EXPANSION TANK SCHEDULE

PLAN MARK	SYSTEM SERVED	TYPE	TANK CAPACITY (GAL)	ACCEPTANCE CAPACITY (GAL)	REMARKS
DWET-1	DOMESTIC CW	DIAPHRAGM	6.4	3.2	FDA APPROVED LINER

RECIRCULATING PUMP SCHEDULE

PLAN MARK	SYSTEM SERVED	TYPE	GPM	HEAD (FT)	SHUTOFF HEAD (FT)	MOTOR DATA			REMARKS	
						HP	VOLTS	Ø		
HWCP-1	DOM. HOT WATER	IN-LINE	20	35	55	1/2	120	1	1800	WATER HEATER CIRCULATOR
HWCP-2	TEMPERED WATER	IN-LINE	6	15	30	1/12	120	1	1800	THERMOSTATIC MIXING VALVE CIRCULATOR